

## ABSTRACT

A method of producing a perovskite complex oxide containing a noble metal element includes a step of heat-treating a precursor substance containing at least one rare earth element and at least one transition metal element to generate a perovskite complex oxide phase, characterized in that an amorphous substance is used as the precursor substance and the noble metal element is incorporated in the amorphous substance. The perovskite complex oxide obtained by this method contains the noble metal element in its crystal and has a BET specific surface area of greater than 10 m<sup>2</sup>/g.